BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Construction of CC Culvert, CC Drain, Providing Covering Slabs and Kerb Stones at MS Palya Main Road LHS in Ward No. 11, Vidyaranyapura Sub Division.**

			Estimate Cost:					2000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1 : Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	Drain Desilting								
	From MS Palya Circle to Govt Hospital		1	565.00	0.90	0.45	228.83		
	From Ch: 85.60 Mts to 102.00 Mts		1	16.40	1.50	1.50	36.90		
	From Ch: 455.00 Mts to 496.00 Mts		1	41.00	1.50	1.50	92.25		
	From Ch: 510.00 Mts to 540.00 Mts		1	30.00	1.50	1.50	67.50		
	For Culvert		1	12.00	1.80	1.65	35.64		
							461.12	75.60	**34860.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	From Ch: 85.60 Mts to 102.00 Mts		1	16.40	1.20	0.15	2.95		
	From Ch: 455.00 Mts to 496.00 Mts		1	41.00	1.20	0.15	7.38		
			1	12.00	1.60	0.15	2.88		
							13.21	4847.04	**64039.00**
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	**4847.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2014-15 (P. 23 / I. 5.6)**	Cum							
	From Ch: 85.60 Mts to 102.00 Mts Damaged Portion		2	16.40	0.60	1.60	31.49		
	From Ch: 496.00 Mts to 565.00 Mts Damaged Portion		2	69.00	0.60	1.00	82.80		
	Rising of SSM Drain from Ch: 296.00 to 455.00 Mtrs		2	159.00	0.60	0.60	114.48		
							228.77	3678.48	**841519.00**
	Basic Rate	3406.00							
	Area Weightage @ 8%	272.48							
	Total	**3678.48**							
4	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	Coping toSSM Drain from Ch: 0.00 to 138.00 Mtrs		2	138.00	0.60	0.10	16.56		
	Coping toSSM Drain from Ch: 296.00 to 455.00 Mtrs		2	159.00	0.60	0.10	19.08		
	Coping toSSM Drain from Ch: 496.00 to 565.00 Mtrs		2	69.00	0.60	0.10	8.28		
							43.92	5327.64	**233990.00**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	**5327.64**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2014-15**	Cum							
	From Ch: 455.00 Mts to 496.00 Mts Bottom		1	41.00	1.00	0.15	6.15		
	From Ch: 455.00 Mts to 496.00 Mts Side Wall		2	41.00	0.15	1.20	14.76		
	CC Culvert Bottom		1	12.00	1.50	0.20	3.60		
	Side Wall		2	12.00	0.23	1.50	8.28		
	Deck Slab		1	12.00	1.50	0.23	4.14		
							36.93	6065.28	**223991.00**
	Basic Rate	5616.00							
	Area Weightage @8%	449.28							
	Total	**6065.28**							
6	KSRB 4.9.2: Providing **T.M.T steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars Fe 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
	Consider 75 Kg / Cum		0.075	36.93			2.77		
							2.77	78351.84	**217015.00**
	Basic Rate	72548.00							
	Area Weightage @ 8%	5803.84							
	Total	**78351.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31/ PWD SR 2014-15**	Sqm							
	Side walls		4	41.00		1.00	164.00		
			4	41.00		1.50	246.00		
			1	12.00	1.00		12.00		
			4	12.00		1.50	72.00		
			2	12.00		0.23	5.52		
			2	1.50		0.23	0.69		
							500.21	292.68	**146401.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
8	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. **Page No. 25 / Item No. 5.30 / PWD SR 2014-15**	Nos							
			1	260.00	=	260	578		
						0.45			
							578	304.56	**175968.00**
	Basic Rate	282.00							
	Area Weightage @ 8%	22.56							
	Total	**304.56**							
9	KSRB 15.19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / / plastered surfaces with lat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 118 / Item No. 15.81 / PWD SR 2014-15**	Sqm							
			1	260.00		0.35	91.00		
							91.00	64.80	**5897.00**
	Basic Rate	60.00							
	Area Weightage @ 8%	4.80							
	Total	**64.80**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**461.12**	73.57	**33924.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
11	Sub Total								**1977604.00**
12	For Third Part QC inspection Charges @ 1%								**19776.00**
13	Miscellaneous and other Charges	L/S							**2620.00**
								Total	**2000000.00**
	(Rs. Twenty Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Asst / Jr Engineer
Ward No. 11

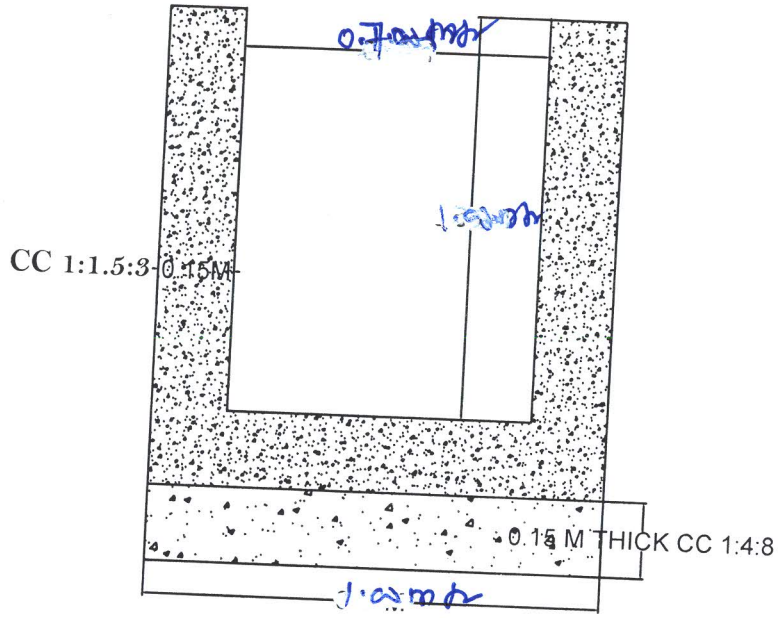
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For 20.00 lakhs (Twenty lakhs only)
Head of A/C P2415
CER NO 118/15-16 **Dt:** 23.01.2015

TA CE (YNK)

Technical Sanction for Rs. 20.00 L
Twenty lakhs only
Registered as 61 Subject to conditions
No: 359 Dt. 11/02/15
AEE/JE 11/02
EE (BTP.Div.)



CROSS-SECTION FOR DRAIN

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.

INDEX